#### "APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001962220015-3

L\_01793-66 EMT(d)/EMP(1) IJP(c) BC

ACCESSION NR: AP5021624

UR/0286/65/000/013/0105/0105

621.9—529

AUTHOR: Yashunskiy, R. G.; Pinson, T. B.

TITLE: Programmed-control system. 9 Class 49, No. 172615

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 105

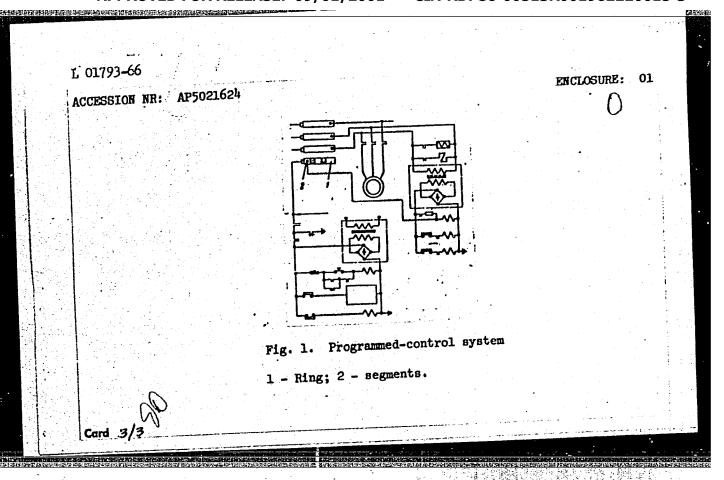
TOPIC TAGS: programmed control, sequence switch

ABSTRACT: An Author Certificate has been issued for a programmed-control system, consisting of a switching device and counter, which controls the operation of electric motors such as those arranged on the rotating parts of rotor lines (see Fig. 1 of the Enclosure). The switching device is in the form of an insulating ring equipped with segmented current-conducting inserts equal in number to the number of motors being controlled, thus assuring the necessary motor switch-on sequence. This device simplifies the control system and increases its reliability. Orig. art. has: 1 figure.

ASSOCIATION: none

Card 1/3

L 01793-66 ACCESSION NR: AP5021624			
SUBMITTED: 16Jun62	ENCL: 01	SUB CODE: DPEE	
no ref sov: 000	OTHER: 000	ATD PRESS: 4085	



AUTHOR:

Yashunskiy, R.G. and Arkhipov, N.A.

113-58-6-13/16

TITLE:

A New Automaton for Controllable Reversal Current in Galvanic Baths (Novyy avtomat dlya reguliruyemogo reversirovaniya toka

v gal'vanicheskikh vannakh)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 6, pp 37-39 (USSR)

ABSTRACT:

The NIITAvtoprom elaborated a new process of high-luster copper plating in cyanic electrolytes. Research showed that the best results are obtained by the controllable reversal current. The best way to do it is to switch the current of the excitation winding of a generator with the help of electronic tubes thiratrons. By the scheme of reversal current elaborated by A.S. Tsege, two independent windings were placed on the poles generators, one of which served to pass the 110-volt current in one direction and the second - in opposite direction. Calculations showed that it was impossible to fix two 110-volt windings on the generator of the AND-1500/750 and AND-5000/2500 aggregates. In this connection, new schemes of reversal current with one excitation winding were fed by a 110-115 volt current for AND-5000/2500 and AND-1000/500 aggregates. (Table 1) The rectification of the current which feeds the excitation winding of the generators is made by two pairs of thiratrons. For

Card 1/3

113-58-6-13/16

. A New Automaton for Controllable Reversal Current in Galvanic Baths

AND-5000/2500 and AND-1000/50C type aggregates, the TR1-15/15 and the TR1-5/2 type thiratrons are used respectively. Each pair is connected with the independent winding of the transformer. The cathodes of each pair are connected with the opposite ends of the excitation windings of the generators through the regulating rheostats and accordingly the middle points of the anode windings of the transformer are also connected with the opposite ends. Thus, by the dual ignition of the pair on the left, the current passes through the windings in one direction, and by switching on the pair on the right, it passes through in the opposite direction. At the same time the direction of the magnetic flux of the generator and the current direction in its armature and in the bath are also changed. The rheostats of excitation (1PB and 2PB) permit the regulation of the current in the excitation winding and, consequently, the density of the current in the direct and reversed directions. The alternate connection of the left and right pair of thiratrons is regulated by an electronic timerelay, mounted on a 6H8C tube, by alternate feeding on its circuit of the positive or negative potential in relation to the

Card 2/3

113-58-6-13/16

A New Automaton for Controllable Reversal Current in Galvanic Baths

cathodes. The feeding of the time relay and the circuits of the thiratrons is made from the circuit of alternate current, with 380 or 220 volts through the transformer 1T, which has as a part of its initial winding the winding of anode voltage, the winding of feeding the tube of the time relay and two windings for feeding the circuits of the thiratrons. The technical characteristics of the transformer are given. The aggregates are built by the Yaroslavskiy elektromekhanicheskiy zavod (The Yaroslavl' Electromechanical Plant). The description and working principle of automaton are given.

There is 1 diagram, 2 tables, 2 photos, 1 figure and 1 Soviet reference.

ASSOCIATION: NIITAvtoprom

Card 3/3

1. Galvanizing--Solutions 2. Electrical current--Control systems

--Operation

# YASHUNSKIY R. G. LEVINA, I.I.

Device for automatic regulation of current density in electrolytic baths. Avt. prom. 29 no.4:35-37 Ap 163.
(MIRA 16:6)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy promyshlennosti.

(Electric controllers) (Calvanizing)

YASHUNSKIY, R. G.; BOCHEVER, B. G.

Pickups for the recording of production output based on changes in the current machine-tool motor circuit. Avt. prom. 28 no.6: 3-5 Je 162. (MIRA 16:4)

1. Wauchno-issledovatel skiy institut avtomobil noy promyshlennosti.

(Electronic instruments) (Production control)

SHULESHKIN, A.V.; YASHUNSKIY, R.G.

Keeping records on and analysing the use of equipment in mass production. Avt.trakt.prom. no.7:3-6 J1 '53. (MLRA 6:8)

Ministerstvo mashinostroyeniya.
 (Machinery in industry) (Production control)

LASHCHIVER, S.M.; SERGEYEV, S.M.; ROZEN, G.M.; YASHUNSKIY, R.G.

Automatic line for manufacturing the air brake reservoir of the ZIL-130 automobile. Avt.prom. no.3:34-38 Mr (61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov.

(Automobiles--Brukes) (Assembly-line methods)

YASHUNSKIY, R.G.; BOCHEVER, B.G.

Means of mechanization of production control. Avt. prom. 27 no. 5:1-6 My '61. (MIRA 14:5)

l. Nauchno-issledovatel skiy tekhnologicheskiy institut avtomobil noy promyshlennosti.
(Automobile industry) (Automation)

TORCHINSKAYA, O.L.; RAZUMOVSKIY, N.O.; YASHUNSKIY, V.G.; BALABUKHA, V.S. USHAKOVA, V.F.

Excretion of radioactive cerium from the body under the influence of triethylenetetraaminehexaacetic and tetraethylenepento-aminoheptoacetic acids. Radiobiologiia 3 no.2:270-275 163 (MIRA 17:1)

KOST, A. H., TERENT'YEV, A. P., YASHUNSKIY, V. G.

Azacyclo Compounds

Synthesis of 1-oxa-5-azacyclooctane. Vest. Mosk. un. 5, No. 6, 1950.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1983, Uncl.

YASHUISKII, V. G.

A. P. Terent'ev, L. A. Yanovskaya and <u>V. G. Yashunskii</u> - "Sulphonation and sulphonic acids of acidophobic compounds. XI. Application of the method of lixiviation for the investigation of the products of sulphonation of pyrrole." (p. 510)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1950, Vol. 20, No. 3.

KOST, A.N.; YASHUNSKIY, V.G.

Aleksei Nikolaevich Vyshnegradskii. Uspekhi Khim. 21, 260-4 '52. (CA 48 no.2:414 '54) (MLRA 5:2)

KOST, A.N., YASHUNSKTY, V. G.

Propionitriles, Vvshnegradskiy Reaction

Anomalous behavior of B - substituted propionitriles in the Vyshenegradskii reaction. Dokl. AN SSSR 83 no. 1, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952, Unclassified.

YASHUNSKI, V.G.	
	USSR.  Borno derivatives of thiodiproploule acld. A. N. Koat, 62  1. A. Lebedev, and V. G. Yashunskii. Vestnik Moskev.
	1. A. Lebedev, and V. G. Yashuishi, Vestim Mossev, Univ. 8, No. 3, Ser. FisMal. i Elestren. Nauk No. 2, 111-14(1953).—Treating Na <sub>1</sub> S.9H <sub>2</sub> O (1 mole) with 2 moles CH <sub>2</sub> :CHCU dropwise at 15-17°, stirring 4 hrs. at room temp., gave an oily layer which, when extd. with C <sub>4</sub> H <sub>4</sub> , washed, dried, and distd. yielded 83-6% \(\beta\), \(\beta\), \(\beta\), digramodicthyl sulfide (1), needles, m. 20°, b <sub>1-1</sub> 163-4°, n <sub>2</sub> ° 1.5047, d <sub>8</sub> 1.1270. Considerably lower conversions were obtained at
	faster reaction rates or higher temps. Refluxing I (0.143 mole) 4 hrs. with 100 ml. coned. HCl yielded 60% β.β'-thlodipropionic acid (II), m. 103.6° (from H <sub>1</sub> O). The following derivs. of II were obtained by conventional methods: di-Et ester. b. 148°, n <sup>3</sup> 1.464θ, d <sub>2</sub> 1.0951; di-Bu ester bu <sub>-12</sub> 194.6°, n <sup>3</sup> 1.464θ, d <sub>2</sub> 1.032θ; dianilide, m. 162.5°
	(from EtOH); di-p-toluidide, m. 198.5° (from EtOH). Gerard Audleger

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001962220015-3

Chemical Abst. Vol. 48 No. 5 Mar. 10, 1954 Organic Chemistry

Anomalous reduction of \(\textit{\textit{\textit{g}}}\) substituted propionitriles by the Vyshnegradskil method. A. N. Kost and V. C. Vashunskil Milosop, State Univ. Zhur. Obsected Haim. 23, 23-8, (1933); cf. C.A. 47, 269-4. Textit propionitriles with ROH. Nationally alkoys, or mercaptopropionitriles with ROH. Nativeching gradskil method. J. Russ. Phys. Chem. Soc. 12, 16 drozy-, alkozy-, or mercaptopropionitriles with ROH-Nativechne eral-kil method. J. Russ. Phys. Chem. Soc. 12, 16 (1880)] leads to anomalous results in that 3-alkoxypropylamines are formed, the alkoxy group being derived from the ROH nard. The reaction proceeds by cleavage to CH<sub>2</sub>:—CHCN, followed by cyanocthylation of the ROH and reduction of the resulting alkoxynitrile. Refluxing 38.2 g. g. g. e. alkoxynitrile, p. 172 g. NaCN in aq. EIOH 10 hrs. g. e., after steam dista, for the removal of unreacted dibromide, 63% pinnelonitrile, b. 150-60°. CH<sub>2</sub>:CHCN (21.2 g.) added slowly to 24 g. McOH and 0.9 g. Na, then heated 1 hrom a steam bath, gave 78% McOCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CN, b. 163-1°, the EiO analog, 70.8%, and iso-PrO analog, 71% were prepel, similarly, iso-almO analog, 75.9%, bu 100-10°. To 121 g. PhOH and 1.5 g. Na was added over 1 hr. 67.8 g. EUI; CHCN at 130-5° and the mixt. stirred 5 hrs., yielding added cart 2 hrs. to 46.5 g. (CH<sub>2</sub>CHCN (30.8 g.) added a cart 2 hrs. to 46.5 g. (CH<sub>2</sub>CHCN), and 1.8 g. CH<sub>2</sub>CN, b., s 111-12°, n's 1.4443, drs. 1.0783, along with 25 g. bis(cyanocthylation) product, b. 160-71°. To 180° g. Nas Sol11,0 in 100 ml. H<sub>2</sub>O at 10° was added 79.5 g. yielding 85% S(CH<sub>2</sub>CH<sub>2</sub>CN), b. 178-9°. To 22 g. Na was added and the mixt. stirred 4 hrs. at room temp., yielding 85% S(CH<sub>2</sub>CH<sub>2</sub>CN), b. 178-9°. To 22 g. Na was added mixt. heated rapidly (bath temp. 145°) until the Na bad discussed the context of the co

(OVER)

solved; the usual aq. treatment and steam distin, gave (1.5%) \$CH\_1(CH\_1CH\_2(H\_1AH\_1))\_1\$, b: 91-2°, Ba deriv., m. 123° [cf. Solonina, J. Russ. Phys. Chem. Soc. 28, 558(1896)]. Sinfilar reaction of 12.5 g. OlCH\_CH\_2CN)\_1 with 30 g. Na and 430 ml. BuOH gave 55.6% BuOCH\_1CH\_CH\_3MI, ba 73-67; ba 169-70°, n. 14358, da 0.8532 (HC) tall, hygroscopic volid; picrate, m. 96°; Bx deriv., b. 192-5°; chloroplatinate, decomp. 199°), also formed in 21.9% yield on reduction of S(CH\_1CH\_2CN)\_1 in BuOH. Rapid addit. of 14.1 g. EtOCH\_1CH\_2CN in 250 ml. hot EtOH to 20 g. Na followed by immediate heating (bath temp. 150-5°) gave 6.95 g. EtOCH\_1CH\_2CN in 250 ml. hot EtOH to 20 g. Na followed by immediate heating (bath temp. 150-5°) gave 6.95 g. EtOCH\_1CH\_2NII(CH\_1)NII(CH\_1)NII\_1, be 116-47°, x. 16-45 g. RetOCH\_2CH\_2CI\_1NII(CH\_1)NII\_2, be 116-47°, x. 16-45 g. Na dust in MePh was added over 15 min. 11.3 g. iso-PrOCH\_1CH\_2CN in 60 ml. iso-PrOH, then 40 ml. iso-PrOH to complete soln. of the Na; the usual treatment gave 21.5% iso-PrOCH\_1CH\_2CN in 64 he. 3; the usual treatment gave 21.5% iso-PrOCH\_1CH\_2CH\_2CN in 16-47.9. Reduction of 10.5 g. McOCH\_2CH\_2CN in 16-48 min. 14.2 d. do.8517 (picrale, m. 104°). Reduction of 10.5 g. McOCH\_2CH\_2CN in BuOH with Na (without other solvent) gave 25.8g. BuOCH\_2CH\_2CN in 180 ml. boiling abs. EtOH was added 16 g. Na; the usual treatment gave 2.6 g. EtOCH\_2CH\_2CH\_1NII\_3, ba 58-49°, and some 1.5 g. nonbasic material; technicion with Na in MePh in the presence of iso-PrOCH\_1CH\_2CN in 180 ml. boiling abs. EtOH was added 16 g. Na; the usual treatment gave 2.6 g. EtOCH\_2CH\_2CH\_3NII\_3, ba 58-49°, and some 1.5 g. nonbasic material; technicion with Na in MePh in the presence of iso-PrOH gave 20% iso-PrOCH\_1CH\_2CN\_1NII\_3, ba 68-67° nonbasic material; technicion in BuOH gave 24.49° iso-BuOCH\_1CH\_2CH\_1NII\_3 ba 68-67° nonbasic material; technicion in MePh in the presence of iso-AmoH gave 20% iso-PrOCH\_1CH\_2CH\_1NII\_3 ba 160-67° nonbasic material; technicion in MePh in the presence of iso-AmoH gave 20% iso-PrOCH\_1CH\_2

MF 3-54

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962220015-3"

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001962220015-3

Chemical Abst.

Chemical Abst.

Vol. 48

Apr. 10, 1954

Organio Chemistry

Chemistry

Chemical Abst.

Vol. 48

Apr. 10, 1954

Organio Chemistry

Chemical Chemistry

Chemical Abst.

Ch. 47, 1803b; 48, 1869b; -10, 53 g. Cl.; CllCk in the mistry with the mistry as didn with the mistry and didn with the mistry and didn with the mistry of th

LADRURDIII					
Dissertation: "Addition Reaction in the Alpha, Feta Unsaturated Mitriles Series." Cand Chem Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov, 5 Jun 54. Vechernyaya Moskva, Moscow, 27 May 54.					
SO: SUM 284, 26 Nov 1954					

YASHINSKIY, V.G.

USSR/ Chemistry - Analysis

Card

1/1

Authors

Terentyev, A. P., Butskus, P. F., and Yashunskiy, V. G.

Title

Determination of acrylonitrile with the aid of the cyanethylation

reaction

Periodical

Zhur. Anal. Khim., 9, Ed. 3, 162 - 165, May-June 1954

Abstract

Investigations conducted on the cyanethylation of alpha-amino acid derivatives led to the development of a new method for the determination of acrylonitriles, based on the reaction of the latter with glycol. The apparature employed in connection with this new analysis method is described. The new analysis method makes it possible to determine acrylonitrile in colored mixtures containing water and ethylenecyanohydrin with an accuracy of up to ± 1%. Eleven references: 3-USSR, 6-USA,

2-English. Table; drawing.

Institution:

The M. V. Lomonosov State University, Moscow

Submitted

Jan. 13, 1954

YASHUNSKIY, V. G

USSR/Chemistry - Reduction processes

Card 1/1 Pub. 151 - 20/38

Authors

: Terentyev, A. P., and Yashunskiy, V. G.

Title

: Study of gamma-dimitrile reduction according to the Vishnegrad method

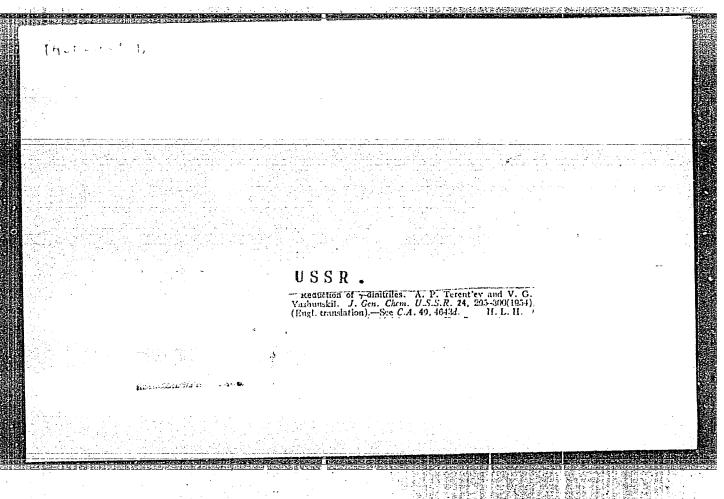
Periodical: Zhur. ob. khim. 24/2, 291-298, Feb 1954

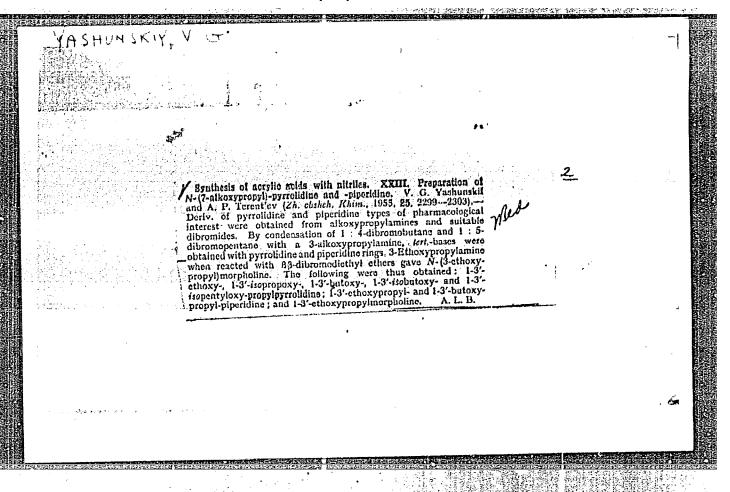
Abstract

: It was found that the Vishnegrad method of reducing nitriles with Na in alcohol can be successfully utilized for the synthesis of certain hardly-accessible cyclic nitrous bases. The conditions and factors affecting the process of cyclization, which is usually followed by the formation of pireridine, was investigated during the reduction dinitrile with glutaric acid in alcohol. Experiments showed that dinitriles of alpha-methyl- and alpha-phenylglutaric acids offer greater yields of cyclic products than non-substituted dinitrile. A method determining the pireridine and ammonia contents in a pentamethylenediamine mixture is described. Fifteen references: 10-USSR; 3-German and 2-USA (1885-1953). Tables; graphs.

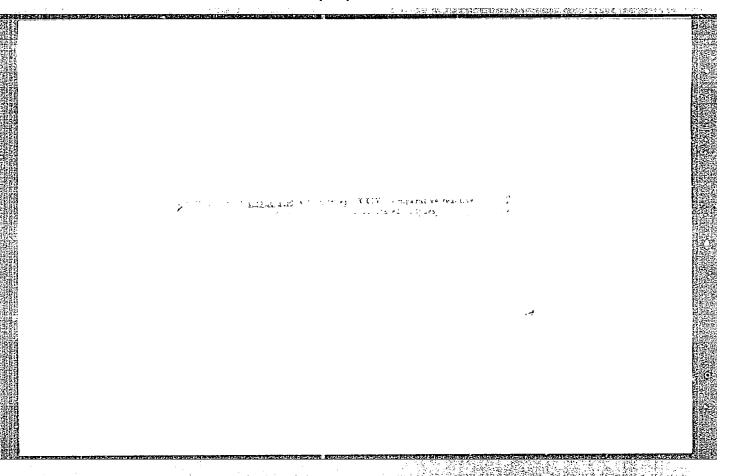
Institution :

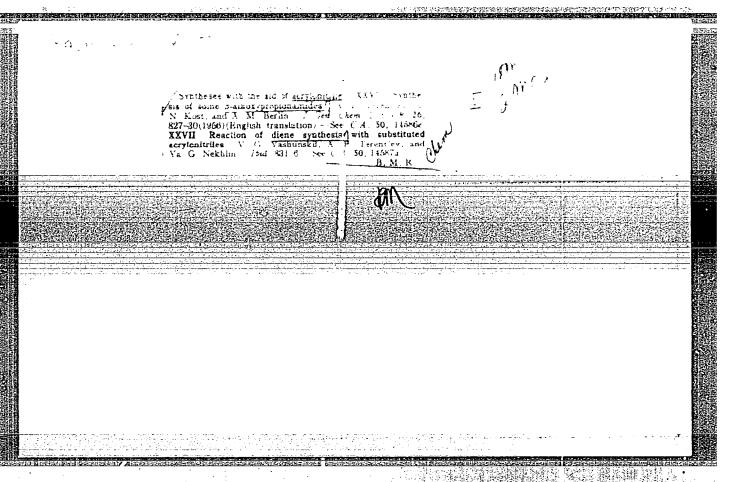
July 13, 1953 Submitted

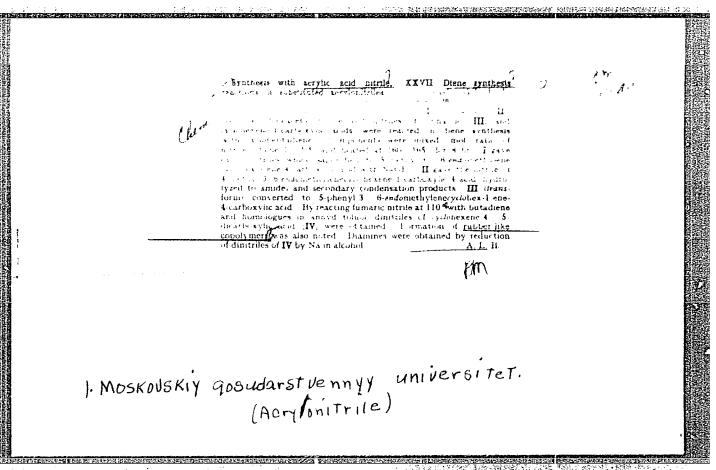


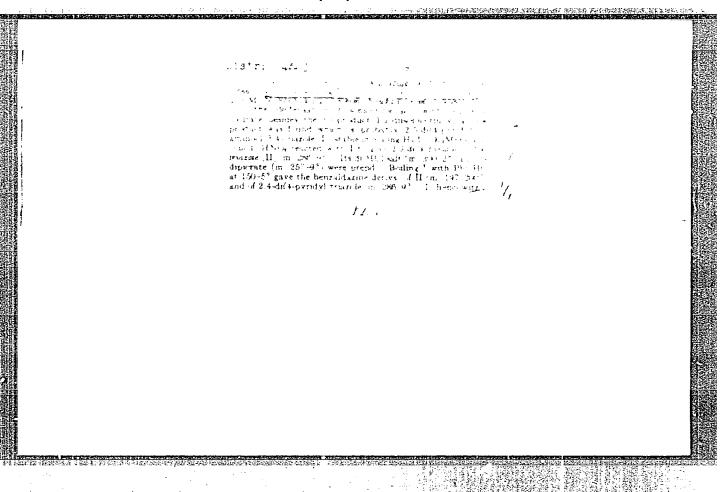


	$\mathcal{U}_{+}$	7		2115	2C)
	Synthese activity of a V. G. Yash	s with acrylonitrile XX acrylonitrile XX acrylonitrile with other a unskil, A. P. Istantica, a	s unsaturated amines / L. Shveday	2 7 MM	ay
	Gen. Chem. tion).—See	U.S.S.R. 25 2345 A C.A. 50, 9428d	1975 (English transla- (M. B. M. R.		Ü
			am in	,	a camer of
			(		
mages of over esti		र असूनि हर्या एक प्राप्तिक वर्ष हुन			









YHOHU	and M. N. Shchukhna. K (1657).—(35-11) and trans- were prepd. The expected (cf. Schwartzenhach, et al., place. On the other hand cyclohexane-N.N.N'. N'-tetrat of which were identical w which S. believed was th diaminocyclopentane-N.N.N' corresponding butane analog tion of the respective diar values of pKi, pKi, pKi, a complex CaX—of IV were 2 and of V 2.7, 2.8, 5.80, 9.77 values of ethylenediamin (given for comparison) wer and 10.59. V was the let that the essential factor for onal complex of metalocycles	analogs. V. O. Vashanckil him. Nauka i Prom. 2, 062-3 (II) -1,2-Dianninocycloherane. reaction of I with CiCH <sub>1</sub> CO,H C.A. 44, 548c) did not take II reacted, giving, 1,2-diaminocyclic acid (III), the properties ith those of "complexon-IV" e cis isomer. The trans-1,2-,N'-tetraacetic acid (IV) and the (V) were prepel, by condensamine with CiCH <sub>1</sub> CO,II. The nd the stability consts. of the 1.4, 3.3, 7.50, 10.80, and 12.2; and 8.0. The corresponding e-N,N,N',N'-tetraacetic acid e 1.990, 2.072, 6.161, 10.20, ast stable. It was concluded increased stability of the interwas that the amino groups be their free rotation about the I. Bencowitz	3	

YASHUNSKIY, V.G.; PAVLOV, L.N.; YERMOLAYEVA, V.G.; SHCHUKINA, M.N.

By-product of the condensation of isonicotinic acid and hydrazine hydrate. Med.prom. 11 no.12:38-40 D '57. (MIRA 11:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. (ISONICOTINIC ACID) (HYDRAZINE) (TRIAZOIE)

494

AUTHORS:

Yashunskiy, V. G., and Vasilyeva, V. F.

TITIE:

Syntheses of Cyclopentanonecarboxylic Acids (Sintezy v ryadu

tsiklopentanonkarbonovykh kislot)

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, No. 1, pp. 273-277 (U.S.S.R.)

ABSTRACT:

Using diethyl ether of adipic acid as a base and applying the F. Sorm method (3), the authors synthesized a certain ester and condensed it with ethyl ether of gamma-bromovaleric acid. The ketodiester yield was low because of apparent low activity of the bromester. It became possible to attach the side chain to the ester by using ethyl ether of gamma-brom-beta-ethylacrylate in which the Br atom is more mobile due to the presence of the double bond in allyl position. The unsaturated ester was obtained from the reaction of bromsuccinimide with ethyl ether of beta-ethylacrylate in the presence of benzoyl peroxide. Condensation of both esters yielded an unsaturated keto diester which by hydrogenation was converted into another ester and then through saponification and esterification into still another type of ester. The following stage — condensation of this last ester — with cyanacetic acid in the presence of potassium ethylate — produced low yields, probably because of the

Card 1/2

494

Syntheses of Cyclopentanonecarboxylic Acids

sharply reduced reactivity of the keto group of the cyclopentane

ring.

The reduced activity of the keto group is explained by the presence in both alpha-carbon atoms of substitutes one of which

appeared to be secondary.

There are 8 non-Slavic references.

ASSOCIATION:

All-Union Scientific-Research Chemical-Pharmaceutical Institute im. S. Ordzhonikidze (Vsesoyuznyy Mauchno-Issledovatel'skiy Khimiko-

Farmatsevticheskiy Institut im. S. Ordzhonikidze)

PRESENTED BY:

SUBMITTED:

January 30, 1956

AVAILABLE:

Card 2/2

VASIL YEVA, V.F.; YASHUNSKIY, V.G.

Sulfonation of sydnones, Khim, nauka i prom. 3 no.2:282-283 '58. (MIRA 11:6)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze.

(Sydnones) (Sulfonation)

YASHUNSKIY, V.C.,

79-1-48/63

AUTHORS:

Yashunskiy, V. G., Shchukina, M. N.

TITLE:

Compounds With Complex-Forming Properties (Veshchestva s kompleksoobrazuyushchey sposobnost'yu) I. Synthesis and Structure of "Complexon IV", i.e. 1,2-Diaminocyclohexane--N,N,N',N'-Tetraacetic Acid (I. Sintez i struktura "Kompleksona - IV" - 1,2-diaminotsiklogeksan-N,N,N',N',tetrauksusnoy kisloty)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 230-234(USSR)

ABSTRACT:

The methods described in publications (references 4, 5, 6) are little applicable to the synthesis of 1,2-diaminocyclo-hexane-N,N,N',N'-tetraacetic acid (formula I), because they give small yields. The authors worked out a more convenient synthesis of this compound by starting from the accessible dimethyl-(or diethyl-)-phthalate. They used Wieland's papers (reference 4) according to which this compound is synthesized from the dihydrazide of cyclohexane-dicarboxylic acid-1,2 (III) according to Curtius. According to the suggested scheme

Card 1/2

79-1-48/63

Compounds With Complex-Forming Properties. I. Synthesis and Structure of "Complexon IV", i.e. 1,2-Diaminocyclohexane-N,N,N',N'-Tetraacetic Acid

the synthesis of "complexon IV" is performed in four stages (the reaction process is given in formulae). The hydrogenation of dimethylphthalate takes place over a nickel catalyst below 50 - 10 atm. at 110 - 140°C without a solvent. On several hours heating the compound (III) is obtained from the hexahydroester with an excess of hydrazine-hydrate. Compound (III) is according to Curtius converted to the dichlorohydrate of 1,2-diaminocyclohexane (II). The final product (I) then results by the influence of monochloreacetic acid upon the dichlorohydrate of diamine in the presence of alkali and in all aspects corresponds to "complexon - IV" described in publications. The authors finally succeeded in proving that this "complexon IV" disposes of a trans- and not a cistrans-figuration as several scientists had maintained. There are 2 tables, and 9 references, 2 of which are Slavic.

SUBMITTED:

December 19, 1956

AVAILABLE:

Library of Congress

Card 2/2

1. Chemistry 2. Cyclic compounds-Synthesis

79-28-4-45/60 Yashunskiy, Y. C. AUTHOR: Substances With Complex-Forming Properties (Veshchestva s kompleksoobrazuyushchey sposobnost'yu) TITLE: II, Trans-1,2-Diaminocyclopentane-N,N,N',N'-Tetraacetic Acid and Trans-1,2-Diaminocyclobutane-N,N,N',N'-Tetraacetic Acid (II. Trans-1, 2-diaminotsiklopentan-N, N, N, N-tetrauksusnaya kislota i trans-1,2-diaminotsiklobutan-N,N,N',N'-tetrauksusnaya kislota) Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 1056-1059 PERIODICAL: (USSR) The author showed in an earlier publication (ref 1) that the "complexon IV" - 1,2-diaminocyclohexane-N,N,N',N'-tetraacetic ABSTRACT: acid (I) possesses trans-configuration. In order to investigate the influence of the structure of the complexons on the capability of forming complexes the author synthesized the analogous compounds, most closely connected with compound (I), which were not described in publications: Trans-1,2-diaminocyclopentane-N,N,N',N'-tetraacetic acid (II) and trans-1,2diaminocyclobutane-N, N, N', N'- tetraacetic acid (III). The acid Card 1/5

Substances With Complex-Forming Properties 79-28-4-45/60 II. Trans-1,2-Diaminocyclopentane-N,N,N',N'-Tetraacetic Acid and Trans-1,2-Diaminocyclobutane-N,N,N',N'-Tetraacetic Acid

of formula II crystallized with 1 molecule of crystal water which did not aplit off on heating in vacuum into 100°. The acid of formula III contains no crystal water.

(II) 
$$\frac{\text{n(cH}_2\text{cooH)}_2}{\text{n(cH}_2\text{cooH)}_2}$$
,  $\frac{\text{n(cH}_2\text{cooH)}_2}{\text{n(cH}_2\text{cooH)}_2}$  (III)

Both tetracarbonxylic acids were obtained by condensation of the corresponding diaminehydrochloride with monochloroacetic acid in the presence of type. The dihydrochloride of trans-1,2-diaminocyclopentane was synthesized from the ethyl ester of cyclopentanone-2-carbonic acid by conversion into the nitroso compound, formation of dioxim and its reduction with metallic sodium in alcohol (ref 2). The dihydrochloride of trans-1,2-diaminocyclobutane was produced according to Curtius' reaction from the dihydracide of trans-cyclobutane-dicarbonxylic acid (1,2), which was obtained from the corresponding diester

Card 2/5

**APPROVED FOR RELEASE: 09/01/2001** 

CIA-RDP86-00513R001962220015-3"

Substances With Complex-Forming Properties 79-28-4-45/60 II. Trans-1,2-Diaminocyclopentane-N,N,N',N'-Tetraacetic Acid and Trans-1,2-Diaminocyclobutane-N,N,N',N'-Tetraacetic Acid

(ref 3). The potentiometric titration of both tetracarboxylic acids in the presence and in the absence of calcium ions showed that these complexons according to their properties are closely connected with compound (I), and also supply stable intra-complex salts, especially with calcium. These compounds have the composition CaX2-(X... residueof tetracarboxylic acid). Based on the potentiometric titration the dissociation constants and the stability constants of the calcium complexes of the synthesized complexons could be computed. They are mentioned in the paper. It was found out that at least two factors cause an increase of stability of similarly built intra-complex metallic compounds: the approach of the amino groups in the molecule of the diamine and its free versatility with respect to the irbinding C1-C2. In the compound I the cyclohexane ring causes an approach of the amino groups. Therewith the possibility of

Gara 3/5

79-28-4-45/60 Substances With Complex-Forming Properties II. Trans-1,2-Diaminocyclopentane-N,N,N',N'-Tetraacetic Acid and Trans-1,2-Diaminocyclobutane-N,N,N',N'-Tetraacetic Acid

mixing these groups with each other is essentially decreased. Nevertheless it takes place because the cyclohexane ring can appear as "tub" and as "chair". In the compound II the plane cyclopentane ring causes a retirement of the amino groups from however, they remain stably bound. As was shown in the experimental example with Ca2+ ions, the compounds I and II possess about the same complex-forming properties, in compound III the amino groups are still further distanced from each other, whilst there is an random free versatility. The potentiometric titration in the presence of calcium ions showed that the value of the stability constants of the calcium complex of compound III is essentially lower than in compound I. The syntheses mentioned in the paper described in an experimental part. There are 1 figure, 2 tables, and 4 references, 1 of which is

Soviet

Card 4/5

CIA-RDP86-00513R001962220015-3" **APPROVED FOR RELEASE: 09/01/2001** 

Substances With Complex-Forming Properties 79-28-4-45/60 II. Trans-1,2-Diaminocyclopentane-N,N,N',N'-Tetraacetic Acid and Trans-1,2-Diaminocyclobutane-N,N,N',N'-Tetraacetic Acid

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy khimiko-

farmatsevticheskiy institut
(All-Union Chemical Pharmaceutical Scientific Research

Institute)

SUBMITTED:

February 7, 1957

Card 5/5

### 

AUTHOR:

Yashunskiy, V. G.

79-28-5-56/69

TITLE:

Substances With Complex-Forming Capabilities

(Veshchestva s kompleksoobrazuyushchey sposobnost'yu)

III. Cis-1,2-Diaminocyclohexane (III. Tsis-1,2-

-diaminotsiklogeksan)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5,

pp. 1361-1364 (USSR)

ABSTRACT:

Earlier (reference 1) the author showed that the "complexon-IV" represents the trans-1,2-diaminocyclohexane-N, N, N', N'-tetraacetic acid and that it is obtained by the condensation of trans-1,2-diaminocyclohexane with monochloracetic acid. It was of interest to synthetize the cis-isomer of the mentioned complexon. However, there had been no data in publications on the presence of a cis-1,2-diaminocyclohexane from which this complexon could be obtained. Just the very moment when the given work was finished short report was published (reference 2) on the synthesis of the cis-1,2-diaminocyclohexane by

Card -1/3

the synthesis of the cis-1,2-diaminocyclonexane by cleavage of the cis-hexahydrobenzimidazolon (reference 3).

Substances With Complex-Forming Capabilities III. Cis-1,2-Diaminocyclohexane

79-28-5-56/69

In the present work the synthesis of the cis-1,2--diaminocyclohexane is described according to the reaction by Curtius (Kurtsiusa) as well as according to the reaction by Shmidt (reference 1) (see reaction scheme). It was found that under the action of the hydrazine hydrate on the esters of the cis- and trans--cyclohexanedicarboxylic acids-1,2 on heating up to 120 - 130°C, only the dihydrazide of the trans--cyclohexanedicarboxylic acid-1,26°Cis-dihydrazide is only obtained at room temperature. After the reaction according to Curtius the cis-1,2-diaminocyclohexane was obtained from the cis-dihydrazide of the cyclohexanedicarboxylic acid-1,2; the former was characterized in more detail by its derivatives. The same compound was also synthetized according to Shmidt from cis-cyclohexanedicarboxylic acid. There are 7 references, 2 of which are Soviet.

Card 2/8 AU Sci. Chem Pharm Research Inde

YASHUNSKIY, V.G.

Complexons and their use. Med.prom. 13 no.4:29-35 Ap '59. (MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. (COMPLEX COMPOUNDS)

SAMOLOVOVA, V.G.; YERMOLAYEVA, V.G.; GORTINSKAYA, T.V.; YASHUNSKIY, V.G.; SHCHUKINA, M.N.

Synthesis of asterol and other derivatives of aminotoxidenzthiazoles. Med. prom. 13 no.5:23-26 My '59. (MIRA 12:7)

Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
 (THIAZOIE)

sov/79-29-8-59/81

5(3) AUTHORS: Yashunskiy, V. G., Vasil'yeva, V. F., Tikhonova, L. I.,

Shchukina, M. N.

TITLE:

Substances With a Complex-forming Capacity. IV. Trans-1,2-diaminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetra-

acetic Acids

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8,

pp 2709 - 2712 (USSR) PERIODICAL:

ABSTRACT:

The authors previously reported on the synthesis and investigation of the complex-forming capacities of some alicyclic 1,2-diaminetetraacetic acids of a trans-configuration (Refs 1,2). In order to complement this series the compound (I) was synthesized. The initial product for the synthesis of this compound was the dimethyl ester of the cis-cyclohexene-(4)-dicarboxylic acid-1,2 obtained by the condensation of butadiene with the anhydride of maleic acid. When this cis-diester is heated with hydrazine hydrate without solvent the trans-dihydrazide forms (Ref 1). The latter was transformed according to Curtius into the dichlorohydrate of the hitherto

Card 1/3

**APPROVED FOR RELEASE: 09/01/2001** 

CIA-RDP86-00513R001962220015-3"

Substances With a Complex-forming Capacity. IV. SOV/79-29-8-59/81 Trans-1,2-diaminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetra-acetic Acids

unknown trans-1,2-diaminocyclohexene-(4) which was treated with an excess of chloroacetic acid in an alkaline medium which led to the compound (I). In order to investigate the influence of the substitutes on the complex-forming capacity of the complexons of the ethylenediaminetetraacetic acid series the compound (II) obtained from 1,2-diaminoethylbenzene by two different methods was synthesized (Ref 3, and Redionov, Ref 4). The tetraacetic acid could only be synthesized by heating 1,2-diaminoethylbenzene with an excess of bromoacetic acid in the presence of caustic soda at 40°. Thus two compounds hitherto not described were synthesized: trans-1,2-diaminocyclohexene-(4)-, and 1-phenylethylenediaminetetraacetic acid. The complex-forming capacity of the synthesized compounds was determined chromatographically (Ref 5) by way of comparison with ethylenediaminetetraacetic acid. By this method it was shown that the new complexons have a complex-forming capacity of the same order as ethylenediaminetetraacetic acid. The table shows the result of these chromatographic determinations.

Card 2/3

Substances With a Complex-forming Capacity. IV. SOV/79-29-8-59/81 Trans-1,2-diaminocyclohexene- and 1-Phenylethylenediamine-N,N,N',N'-tetra-acetic Acids

The results of the investigation of complexon (II) show that the presence of the phenyl radical beside one of the amino groups of ethylenediaminetetraacetic acid has but little effect upon the complex-forming capacity. There are 1 table and 6 references, 5 of which are Soviet.

SUBMITTED: July 5, 1958

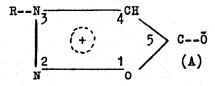
Card 3/3

SOV/79-29-8-60/81 5(3) Yashunskiy, V. G., Vasil'yeva, V. F., Sheynker, Yu. H. AUTHORS:

On the Aromatic Properties of Sydnones

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2712-2718 (USSR)

Among the so-called mesoine compounds the sydnones are of ABSTRACT: particular interest since they are highly reactive. Of special importance is their capacity of replacing the hydrogen in position 4 (Ref 2), especially by chlorine and bromine (Refs 2, 3).



On the strength of these data it was assumed that the sydnomes are of aromatic nature. In the pentacyclic ring there are totally 7 m electrons in the state 2pZ; one of them may be given to the exocyclic oxygen atom so that a certain negative charge concentrates on it, while 6 T electrons remain in the ring which contains a great positive charge. These latter 6 tr electrons form

Card 1/3

TITLE:

On the Aromatic Properties of Sydnones

507/79-29-8-60/81

the aromatic system. However, experimental data hitherto obtained do not suffice to confirm this assumption. In this connection the present investigations were carried out. The authors sulphurized a series of sydnones with dioxan-sulphotrioxide in a dichloroethane solution at 20-40°. The reaction took place with the 3-phenyl-, 3-(n-methoxyphenyl)-, 3-(n-ethoxyphenyl)-, 3-(m-chlorophenyl)-, and 3-ethylsydnone. The three latter compounds have hitherto been unknown. They were obtained by reaction of the corresponding N-nitroso-od-amino acids with the anhydride of acetic acid. The treatment of the reaction mass after sulphurization was the usual one. The sulphonic acids were separated out in the form of their barium salts from which the benzylthiuronium derivatives of the acids were prepared. The second reaction characteristic of aromatic compounds which was carried out here was the mercurization reaction. During the treatment of the aqueous-alcoholic solution of the 3-phenylsydnone with HgCl, two compounds were separated:

4-chloro-(3-phenylsydnone)-mercury and di-4-(3-phenylsydnone)-mercury. During the mercurization of the 3-phenylsydnone with mercury acetate a considerable quantity of 4-acetatemercury-3-phenylsydnone was separated which was then transformed,

Card 2/3

the Aromatic Properties of Sydnones

SOV/79-29-8-60/81

with salt solution, into the chloromercurysydnone and its symmetric derivative. The easiness with which the hydrogen atom in the sydnones can be replaced by the sulpho group and mercury thus confirms the aromatic nature of these compounds. Another factor which indicates an aromatic character are the infrared absorption spectra of the sydnones. The presence of the spectral bands corresponding to the carronyl group is therefore not in agreement with the structural formula of the sydnones hitherto assumed. There are 1 figure and 7 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemopharmaceutical Research Institute imeni S. Ordzhonikidze)

SUBMITTED:

July 5, 1958

Card 3/3

CIA-RDP86-00513R001962220015-3" **APPROVED FOR RELEASE: 09/01/2001** 

5.3400

77924 SOV/79-30-2-75/78

AUTHORS:

Vasil yeva, V. F., Yashunskiy, V. G., Shehukina,

M. N.

TITLE:

Letters to the Editor. Concerning the Reaction of

Sydnones With Derivatives of lpha , eta -Unsaturated

Ac1ds

PERIODICAL:

Zhurnal obshehey khimii, 1960, Vol 30, Nr 2,

p 698 (USSR)

ABSTRACT:

Sydnones on heating with nitriles and esters of  $\alpha$ ,  $\beta$  -unsaturated acids undergo cleavage and yield derivatives of pyrazoline and pyrazole, accompanied by evolution of the carbon dioxide. while the reaction of sydnones with unsaturated esters yields esters of substituted pyrazoli-necarboxylic acids, the reaction of sydnones with nitriles yields only substituted pyrazoles. In both cases, probably, the formation of esters or nitriles of substituted pyrazolinecarboxylic acids

Card 1/3

takes place. However, the cyano group in these

CIA-RDP86-00513R001962220015-3" **APPROVED FOR RELEASE: 09/01/2001** 

Letters to the Editor. Concerning the Reaction of Sydnones With Derivatives of  $\alpha$ ,  $\beta$ -Unsaturated Acids

77924 207/19-30**-**2-75/78

compounds is easily removed by heating; this causes the conversion of cyanopyrozolines into corresponding pyrazoles.

$$\frac{H-N-CH'}{\frac{1}{2}} \frac{C-2O+\frac{Ch''}{CH'}}{\frac{1}{2}} \frac{R-N-\frac{N-N}{N}}{\frac{N-N-CH'}{N}} = \frac{-Hx}{H-N-CH'} \frac{S-CH'}{N-S-CH'}$$

THE REALPHY ARYL J RESERVE OF HE CHILL RESERVE COOCH,

The addition of derivatives of unsaturated conjugated acids to sydnones occurs in such a way that the person atom of ethylene bond is directed toward the carbon atom of sydnone, and Cleatom of the same bond, toward the unsubstituted nitrogen atom. Heating 3-phenylsydnone with excess acrylonitrile yields 1-phenylpyrazole (yield 80%). The structure of the obtained compounds was confirmed by spectral analysis, as well as by comparison with literature data. There is 1 German reference.

Card 2/3

Letters to the Editor. Concerning the Reaction of Sydnones With Derivatives of  $\alpha$ ,  $\beta$ -Unsaturated Acids

77924 sov/79-30-2-75/78

ASSOCIATION:

S. Ordzhonikidze All-Union Scientific Research Chemical

and Pharmaceutical Institute (Vsesoyuznyy nauchnoissledovatel'skiy khimiko-farmatsevticheskiy institut

imeni S. Ordzhonikidze)

SUBMITTED:

October 26, 1959

Card 3/3

YASHUNSKIY, V.G.; VASIL'YEVA, V.F.

Synthesis of 3-isopropyl- and 3-phenylisopropylsydnones and of the corresponding substituted hydrazines. Zhur.ob.khim. 30 no.8:2754-2756 Ag 160. (MIRA 13:8)

S/079/60/030/012/005/027 B001/B064

AUTHORS:

Yashunskiy, V. C., Smolin, D. D., Yermolayeva, V. G.,

and Shchukina, M. N.

TITLE:

Substances Capable of Complex Formation. V. 2,2'-Diamino-

diethyl Ether-N, N, N', N'-tetraacetic Acid

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 12,

pp. 3916-3918

TEXT: The authors continue their studies (Ref. 2) of the synthesis of complexons by synthesizing 2,2'-diamino-diethyl ether-tetraacetic acid; this synthesis has hitherto not been described. It may, however, be assumed that this complex was obtained on the basis of data of an English patent (Ref. 3) from 2,2'-diamino-diethyl ether by carboxymethylation. Several experiments had failed before the complex was obtained by reacting 2,2'-diamino-diethyl ether. The diamino ether was obtained from 2,2'-dichloro diethyl ether with the diphthalimide derivative by the reaction of Cabriel (Ref. 4), however, the 2,2'-di(phthalimido)-diethyl ether was split off by boiling with an alcohol solution of hydrazine hydrate and subsequent treatment with hydrochloric acid which simplified the reaction and led to an Card 1/2

Substances Capable of Complex Formation. V. 2,2'-Diamino-diethyl Ether-N,N,N',N'-tetraacetic Acid

S/079/60/030/012/008/027 B001/B064

abruptly increasing yield. The diamine was separated as dichloro hydrate and reacted with monochloro acetic acid. The reaction was normal and took place in alkaline medium (Ref. 2). Since it was not possible to precipitate tetra acid by acidifying the reaction mass, which is the case with some other complexons, two methods of precipitation were applied. The cationite KU-2 was used for the first one applied in the study of Ref. 5. By the latter method the reaction mixture was acidified until the acid reaction toward Congo red as indicator had been reached and, after the separation of sodium chloride from the solution, the monosodium salt of the complexon precipitated with methanol and purified by repeated precipitation with methanol from water. There are 6 references: 2 Soviet, 1 US, 1 Swiss, 1 German, and 1 British.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Chemical and Pharmaceutical Scientific Research Institute imeni S. Ordzhonikidze)

SUBMITTED:

January 11, 1960

Card 2/2

YASHUNSKIY, V.G., SHCHUKINA, M.N., YERMOLAYEVA, V.G., SAMOYLOVA, O.I.

Synthesis of imizine hydrochloride, N-(3-dimethylaminopropyl)-iminodibenzyl. Med. prom. 15 no.12:10-13 D '61. (MINA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
(IMIPRAMINE)

TREGUBENKO, I.P.; YASHUNSKIY, V.G.; SEMENOV, D.I.

Accelerating the climination of yttrium, cerium, and lead from the organism with the aid of ethylenediaminetetraacetic acid, diethylenetriaminepentaacetic acid and the diamindiethyl ester of tetraacetic acid. Biokhimiia 26 no. 1:177-187 Ja-F '61.

(MIRA 14:2)

1. Laboratory of Biophysics, Institute of Biology, the Ural Branch of Academy of Sciences of the U.S.S.R., Sverdlovsk, and Union Research Chemo-Pharmaceutic Institute, Moscow.

(ACETIC ACID) (METALS IN THE BODY) (EXCRETION)

VASILIYEVA, V.F.; YASHUNSKIY, V.G.; SHCHUKINA, M.N.

Formation of substituted pyrazoles in the reaction of sydnones with of a sydnones with of sydnones with other sydnones.

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(Pyrazole) (Nitrile) (Sydnone)

YASHUNSKIY, V.G.; SAMOYLOVA, O.I.; SHCHUKINA, M.N.

Substances with complex-forming properties. Fart 6: Synthesis of cyclic analogs of nitrilotriactic and ethylenodiaminotetraacetic acids. Zhur.ob.kdlm. 31 no.7:2316-2321 J1 '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze. (Acetic acid) (Ring formation)

YASHUNSKIY, V.G.; SIDORENKO, V.V.

2-Aminothiazolediacetic acid and 2-amino-6-methocybenzothiazolediacetic acid. Met. poluch. khim. reak. i prepar. no.6:80-82 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistykh khimicheskikh veshchestv.

YASHUNSKIY, V.G.; PERESLENI, Ye.M.; SHEYNKER, Yu.N.

Spectroscopic study of the structure and properties of sydnone imines. Izv. AN SSSR. Ser.fiz. 26 no.10:1295-1298 62. (MINA 15:10)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze.

(Sydnone imine-Spectra)

YASHUNSKIY, V.G.; YERMOLAYEVA, V.G.

Sydnones and sydnone imines. Part 7: 3-Isopropyl- and 3-cyclohexylsydnone imines and sulfanylamino derivatives of the sydnone imine series. Zhur. ob. khim. 32 no.1:186-191 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(Sydnone imine)

YASHUNSKIY, V.G.; VASIL'YEVA, V.F.; KHOLODOV, L.Ye.; SHCHUKINA, M.N.

Sydnones and sydnone imines. Part 8: Polymethylene-bis-3-sydnone imines. Zhur. ob. khim. 32 no.1:192-195 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze, (Sydnone imine)

YASHUNSKIY, V.G.; KHOLODOV, L.Ye.

Sydnones and sydnone imines. Part 9: Study of the formation of 4,4'-dimethylethylene-bis-3-sydnone imine. Zhur.ob.khim. 32 no.3:865-869 Mr '62. (MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(Sydnone imine)

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.; SHCHUKINA, M.N.

Sydnomes and sydnome imines. Part 10: Reaction of 3-phenyland 3-phenyl-4-methylsydnomes with methyl acrylate. Zhur.ob. khim. 32 no.5:1446-1451 My '62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(Sydnone) (Acrylic acid)

YASHUNSKIY, V.G.; SHEYNKER, Yu.N.

Sydnones and sydnone imines. Part 11: Study of the structure of sydnone imines by means of infrared spectra. Zhur.ob.khim. 32 no.5:1681-1687 My \*62. (MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S. Ordshonikidze.
(Sydnone imine-Spectra)

YASHUNSKIY, V.G.; PERESLENI, Ye.M.

Sydnones and sysnone imines. Part 12: Ultraviolet spectra of sydnone imines. Zhur.ob.khim. 32 no.5:1687-1690 My 162.

(MIRA 15:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(Sydnone imine-Spectra)

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.

Sydnones and sydnone imines. Part 13: Interaction of 3-methyland 3-ethysydnones with methyl ester of acrylic acid. Zhur.ob.khim. 32 no.9:2888-2893 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

(Sydnone) (Acrylic acid)

YASHUNSKIY, V.G.; VASIL'YEVA, V.F.; SHCHUKINA, M.N.

Reactions of sydnones with unsaturated compounds. Zhur.ob.khim.
32 no.9:3107 S \*62. (MIRA 15:9)

(Sydnone) (Unsaturated compounds)

YASHUNSKIY, V.G.; SAMOYLOVA, O.I.; DYATLOVAM N.M.; LAVROVA, O.Yu.

Substances with complex-forming capacity. Part 7: N,N,S-mercaptoethylaminotriactic acid. Zhur.ob.khim. 32 no.10:3372-3378 0 162. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze i Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov.

(Acetic acid) (Complex compounds)

YASHUNSKIY, V.G.; KHOLODOV, L.Ye.

Sydnones and sydnone imines. Part 14: Synthesis of p-phenylene-bis-3-sydnone and 3-sydnone imine. Zhur.ob.khim. 32 no.11:3661-3665 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeñi S. Ordzhonikidze.
(Sydnone) (Sydnone imine)

#### YASHUNSKIY, V. G.

Sydnones and sydnone imines. Part 15: Synthesis of 3-(dialkylaminoalkyl)sydnone imines. Zhur. ob. khim. 33 no.1:192-195 163. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsev-ticheskiy institut imeni S. Ordzhonikidze.

(Sydnone imine)

MAYRANOVSKIY, V.G.; KHOLODOV, L.Ye.; YASHUNSKIY, V.G.

Sydnones and sydnone imines. Part 16: Polarographic investigation of sydnone imines. Zhur.ob.khim. 33 no.2:347-353 F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. (Sydnone imine) (Polarography)

# KHOLODOV, L.Ye.; YASHUNSKIY, V.G.

Sydnones and sydnone imines. Part 17: Opening of the ring of sydnone imines under the effect of hydrochloric acid. Zhur. ob.khim. 33 no.10:3409-3412 0 163. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovateliskiy khimiko-farmatsevti-cheskiy institut imeni S.Ordzhonikidze.

VASIL'YEVA, V.F.; YASHUNSKIY, V.G.

Interaction of N-acyl derivatives of sydmone imines with acrylonitrile. Zhur.ob.khim. 34 no.28702-703 F 164. (MIRA 17:3)

1...Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

YASHUNSKIY, V.G.; FEDOROVICH, V.S.; KHOLODOV, L.Ye.

Synthesis of 3-alkyl sydnone imines. Zhur. VKHO 8 no.5: 583-584 163. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-cheskiy institut imeni Sergo Ordzhonikidze.

YASHUNSKIY, V. G.; SAMOYLOVA, O. 1.; KHOLODOV, L. Ye.

Sydnones and sydnone imines. Part 21: Salt-forming properties of il.-acyl derivatives of sydnone imines. Zhur. ob. Khim. 34 no.612050-2058 Je '64. (MIRA 17:7)

1. Vsegoyuznyy nauchno-issiadovateliskiy khimiko-farmatsevticheskiy institut imeni S. Oruzhonikidze.

VASIL'YEVA, V. F.; YASHUNSKIY, V. G.

Sydnones and sydnone imines. Part 22: Reaction of vinyl others with 3-phenylsydnone. Zhur. ob. Khim. 34 no.6:2059-2061 Je '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevskiy institut imeni S. Ordzhonikidze.

CHERNOV, V.A.; YASHUNSKIY, V.G.

Antiblantic activity of sydnone imines in vitro. Dokl. AN SSSR 155 no.1:216-219 Mr '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut im. S.Ordzhonikidze. Predstavleno akademikom M.M. Shemyakinym.

YASHUNSKIY, V.G.; FEDOROVICH, V.S.

Sydnones and sydnone imines. Part 23: Bromination of sydnone imines. Zhur. ob. khim. 34 no.9:3075-3078 S '64.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

DYATLOVA, N.M.; SELIVERSTOVA, I.A.; YASHUNSKIY, V.G.; SANOYIOVA, O.I.; Prinimala uchastiye Dobrynina, N.A.

Complexons. 1,3-Diaminopropanol-2-N,N,N'N'-tetraacetic acid.
Zhur. ob. khim. 34 no.12:4003-4007 D '64 (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut khimicheskikh reaktivov i osobo shistykh khimicheskikh veshcheste "IREA" i Vsesoyuz y nauchno-issledovatel skiy khimiko-farmatserticheskiy institut im. Ordzhonikidze.

KHOLODOV, I.Ye.; YASHUNSKIY, V.G.

Syndnones and sydrone iamines. Part 27; Kinetics and mechanism of thermal and hydrolytic splitting of syndrone imine chlorides. Zhur. ob. khim. 35 no.9:1551-1561 S '65. (MTRA 18:10)

1. Vsesoyuznyy nauchno-issledovatsliskiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

KHOLODOV, L.Ye. YASHUNSKIY, V.G.

Sidness and sydnone imines. Part 28: 4-Aryl-substituted symme imines. Zhur. org. khim. 1 no.11:2063-2068 N 665.

(MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze. Submitted July 27, 1964.

YASHUNSKIY, V.G., doktor khim. nauk

Complex-forming agents and their use in medicine. Zhur. VKHO 10 no. 6:679-683 '65 (MTRA 19:1)

ZOTOVA, S.A.; YASHUNSKIY, V.G.

Sydnones and sydnone imines. Part 30: Sydnone-4-carboxylic acids and their derivatives. Thur. org. khim. 1 no. 12: 2218-2222 D 165 (MTRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze. Submitted Tecember 28, 1964.

DYATLOVA, N.M.; YASHUNSKIY, V.G.; SIDORENKO, V.V.; LAVKOVA, O.Yu.; LASTOVSKIY, R.P.

Synthesis and study of new complexons containing heteroatoms in cyclic compounds. Trudy IREA no.25:83-90 '63.

Synthesis and study of new selective ion-exchange resins.

Ibid.:91-99 (MIRA 18:6)

KHOLODOV, L.Yo.; ALEKSHYEV, V.V.; YADHUNGKIY, V.G.

Polarography of N-nitroso-N-substituted &-amino nitriles, initial compounds in the synthesis of sydnone imines. Zhur.fiz.khim. 39 no.7:1566-1571 Jl '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsovtichoskiy institut.

YASHUTKIN, G. F., KLIMOVITSKIY, Z.L., inzh.; MEL'NIKOV, L.A. inzh.; YASHUTKIN, G.F., inzh.

Automatic welding of steam turbine diaphragms in a protective atmosphere of carbon dioxide. Svar.proizv. no.11:46-49, 3 of cover N '57. (MIRA 10:12)

1. Bryanskiy mashinostroitel'nyy zavod.
(Steam turbines--Welding) (Protective atmospheres)

BETANELI, A.M., kand. med. nauk; BESHKENADZE, G.Ye.; YASHVILI, A.A.

Removal of the transverse colon in a patient following stomach resection performed by the Hofmeister-Finsterer method.

Khirurgiia 38 no.12:108-109 D \*62. (MIRA 17:6)

1. Iz khirurgicheskogo otdeleniya Kutayaskoy gorodskoy bol'nitay No.2 (glavnyy vrach A.S. Dzotsenidze).

IASHVILL, A. I.	
30286.	
Nopyye priyemy proyektirovaniya sostavav gidrotyekhni p chyeskogo byetona. Trudy IV Vsyesoyuz. konf - tsii po byeony I Zhyelepobyeon. Konstruktsiyam. Ch. 3. M.L. 1949, s. 166 - 72	
4. Enyergyetika	
A. Cbshchiye voprosy. Tyeplotyekhnika tsyelom	
SO. LETOPIS No. 34	

YASHVILI, B.P.

Cytological examination of a burned surface. Soob.AN Gruz.SSR 23 no.4:493-500 0 159. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut perelivaniya krovi imeni G.M.Nukhadze, Tbilisi. Predstavleno akademikom K.D. Bristavi. (BURNS AND SCALDS)

YASHVILI, G. I.

USSR/ Chemical Technology. Chemical Products and Their

I-7

Application. Pesticides

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12408

Author : Goguadza V.P., Pkhiedze T.A., Enukidze I.Ya., Yashvili G.

I.

Inst : Tbilisi Chemico-Pharmaceutical Scientific Research

Institute

Title : Concerning the Isolation of a Concentrated Light Insec-

ticidal Preparation from Pyrethrum (Chrysanthemum cine-

rariaefolium).

Orig Pub : Sb. tr. Tbilissk, n.-i. khim.-farmatsevt. in-ta, 1955,

7, 123-132

Abstract : Description of the recovery of the olcoresin (I) from

dried flowers of Calintian daisy with anhydrous dichlorethane (II) at room temperature and at the boiling temperature of II. Ca chloride (III), placed in the

current of boiling I decreases the activity of I, while

Card 1/2

- 31 -

USSR/ Chemical Technology. Chemical Products and Their

I-7

Application. Pesticides

Abs Jour

Referat Zhur - Khimiya, No 4, 1957, 12408

blue vitriol (BV) and tilda-askane clay (TA) enhance its activity. With TA an insecticidal dust is also obtained. Treatment with isoamyl alcohol or methanol (IV) in the presence of BV resulted in lowering of the activity of I, while IV used in the presence of III increases the activity. Alcoholic solutions are clarified with basic Pb acetate.

Card 2/2

- 32 -

en unio distributo di la cominante en la comina de la cominante de la cominante de la cominante de la cominante

YASHVILI, G.M.

Yashvill, G.M. -- "Some Investiations in the Chemistry of M-Substituted Carbohydrates." Published by the Georgian Shate Publishing House for Medical Literature, Azerbaydzhan State U imeni S.M. Kirov. Tbilisi, 1955 (Dissertation for the Degree of Candidate in Chemical Schiences.)

50: Kniumaya Letopis', No 9, 1956

113 HV 121, & M.

USSR/Chemical Technology - Chemical Products and Their

I-10

Application. Fats and Oils. Waxes. Soap. Detergents.

Flotation Reagents.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2738

Author

Gogudze, V.P., Yashvili, G.M.

Inst Title

: Preparation of Foaming Agents by Condensation of Starch

Degradation Products with Amines and Amino Acids.

Orig Pub

: Zh. prikl. khimli, 1957, 30, No 4, 618-623

Abstract

: A study was made of the possibility of synthesizing new kinds of foaming agents by interaction of carbonyl groupings with amino group so as to combine hydrophobic and hydrophilic portions of the molecules of the surface active agent. It was found that interaction of starch degradation products with aniline and O-amino benzoic acid, at 1800, results in the formation of surface-active condensation products that are foaming agents the

Card 1/2

I-10

USSR/Chemical Technology - Chemical Products and Their Application. Fats and Oils. Waxes. Soap. Detergents.

Flotation Reagents.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2738

frothing properties of which are similar to those of the saponins derived from tea seed and licorice root.

TBILISSKIY Nauchwo- ISSLEdoVATEL'SKIY
Khimiko-farmatsevlichenky inst.

Card 2/2

CIA-RDP86-00513R001962220015-3" **APPROVED FOR RELEASE: 09/01/2001** 

Promising species of parasitic fungi of the genus (solarichia. Zashch.rast. ot vred. i bol. 9 no.11:46-47 '64.

[MIRA 18:2)

1. Zaveduyushchiy biologicheskoy laboratoriyey Gruzinckogo instituta zashchity rastenly.